

Abstract

Methods for making glass-ceramics comprising Al_2O_3 , REO , at least one of ZrO_2 or HfO_2 and at least one of Nb_2O_5 or Ta_2O_5 . Glass-ceramics according to the present invention can be made, formed as, or converted into glass beads, articles (e.g., plates), fibers, particles, 5 and thin coatings. Some embodiments of glass-ceramic particles according to the present invention can be are particularly useful as abrasive particles.